**TP 3 – Simple past – ACTIVE vs PASSIVE VOICE**

**1) Watch the video about the Harvard Mark I computer again and put the following text in the correct order. Write it as one paragraph, one sentence after the other.**

Video <https://www.youtube.com/watch?v=bN7AdQmd8So> (up to minute 1.40)

-It used 3,500 relays and thousands of counters and switches.

-The machine was 51 feet (15 and a half meters) long.

-Later on, Harvard University’s staff and others called it Harvard Mark I.

-IBM presented it to the Harvard University on August 7th 1944.

-IBM developed and built the ASCC at the Endicott Plant, and shipped it to Harvard in February 1944.

-Dr. Howard Aiken presented the original concept for this giant calculator to IBM in November 1937.

-It was a general-purpose electromechanical computer.

-In 1944, IBM introduced the Automatic Sequence Controlled Calculator, or ASCC, the largest electromechanical calculator in the world.

-The US Navy used it in war efforts, during the last part of World War II.

-After a feasibility study by IBM’s engineers, Thomas Watson Senior, head of IBM, personally approved the project and its funding, in February, 1939.

-It began computations for the US Navy in May.

-IBM’s staff called the machine ASCC.

-The Mark I executed long computations automatically.

-It used 500 miles (804 kilometers) of wire with over 3,000,000 connections.

**Glossary**

**US Navy**: Marina/Fuerza naval de los Estados Unidos

**feasibility**: viabilidad

**head**: director

**funding**: financiamiento

**built**: construyó / construida

**shipped it**: la enviaron

**shipped**: enviada

………………………………………………………………………………………………………………………………………………………………………..

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**2) Put the words in the correct order and write questions for the following answers about the text. This text is in ACTIVE VOICE. Pay attention to the answers.**

**E.g. (example)**

a) the Automatic Sequence Controlled Calculator / introduce / IBM / when / did ?

**When did IBM introduce the Automatic Sequence Controlled Calculator?**

***Answer:*** *IBM introduced the Automatic Sequence Controlled Calculator* ***in 1944****.*

**b)** the ASCC / was / what ?

**………………………………………………………………………………………………………………………………**

***Answer:*** *It was a general-purpose electromechanical computer.*

**c)** use / did / when / it / the US Navy ?

**………………………………………………………………………………………………………………………………**

***Answer:*** *The US Navy used it during the last part of World War II.*

**d)** war efforts / it /did / use / in ?

**………………………………………………………………………………………………………………………………**

***Answer:*** *Yes, it did.*

**e)** did / what / Howard Aiken / to IBM in 1937 / present ?

**………………………………………………………………………………………………………………………………**

***Answer:*** *He presented the original concept for this giant calculator.*

**f)** in February, 1939 / the project and its funding, / approved / who ?

**………………………………………………………………………………………………………………………………**

***Answer****: Thomas Watson Senior approved the project and its funding, in February, 1939.*

**g)** IBM / did / where / the ASCC / develop and build ?

**………………………………………………………………………………………………………………………………**

***Answer****: IBM developed and built the ASCC at the Endicott Plant.*

**h)** the ASCC / IBM / did / to Harvard / when / ship / ?

**………………………………………………………………………………………………………………………………**

***Answer****: It shipped it to Harvard in February 1944.*

**i)** begin / the Mark 1 / computations for / did / in May 1944 / who ? (no separar computations for)

**………………………………………………………………………………………………………………………………**

***Answer****: It began computations for the US Navy in May.*

**j)** present / the Mark 1 to / who / did / on August 7th 1944 / IBM ? (no separar the Mark I to)

**………………………………………………………………………………………………………………………………**

***Answer****: IBM presented it to the Harvard University on August 7th 1944.*

**k)** call / what / IBM’s staff / the machine / did ?

**………………………………………………………………………………………………………………………………**

***Answer****: IBM’s staff called the machine ASCC.*

**l)** Harvard Mark I / called / who / it ?

**………………………………………………………………………………………………………………………………**

***Answer****: Harvard University’s staff and others called it Harvard Mark 1.*

**m)** the Harvard Mark I / did / long calculations / how / execute ?

**………………………………………………………………………………………………………………………………**

***Answer****: It executed long computations automatically.*

**n)** long / the machine / how / was ?

**………………………………………………………………………………………………………………………………**

***Answer****: The machine was 51 feet long.*

**o)** the Mark 1 / how many miles of wire / did / use ?

**………………………………………………………………………………………………………………………………**

***Answer****: It used 500 miles of wire.*

**p)** relays / did / how many / use / the Mark I ?

**………………………………………………………………………………………………………………………………**

***Answer****: It used 3,500 relays.*

**q)** counters and switches / how many / did / use / the Mark I ?

**………………………………………………………………………………………………………………………………**

***Answer****: It used thousands of counters and switches.*

**3) Read the text again. And do the following exercises. (Don’t forget the glossary)**

*In 1944, IBM introduced the Automatic Sequence Controlled Calculator, or ASCC, the largest electromechanical calculator in the world. It was a general-purpose electromechanical computer. The US Navy used it in war efforts, during the last part of World War II. Dr. Howard Aiken presented the original concept for this giant calculator to IBM in November 1937. After a feasibility study by IBM’s engineers, Thomas Watson Senior, head of IBM, personally approved the project and its funding, in February, 1939. IBM developed and built the ASCC at the Endicott Plant, and shipped it to Harvard in February 1944. It began computations for the US Navy in May. IBM presented it to Harvard University on August 7th 1944. IBM’s staff called the machine ASCC. Later on, Harvard University’s staff and others called it Harvard Mark 1. The Mark 1 executed long computations automatically. The machine was 51 feet (15 and a half meters) long. It used 500 miles (804 kilometers) of wire with over 3,000,000 connections. It used 3,500 relays and thousands of counters and switches.*

***The previous text is in active voice. In the following exercises, first, we are going to pay attention to some important aspects, then, we are going to present the same information using the passive voice.***

**3.1) Mark the subject (underline it) and mark the *object* (*you can use italics*) in each of the following sentences.**

e.g. In 1944, **IBM** introduced ***the Automatic Sequence Controlled Calculator***.

a) The US Navy used it during the last part of World War II.

b) Dr. Howard Aiken presented the original concept for this giant calculator to IBM in November 1937.

c) Thomas Watson Senior approved the project and its funding, in February, 1939.

d) IBM developed and built the ASCC at the Endicott Plant.

e) IBM shipped it to Harvard in February 1944.

f) IBM presented it to the Harvard University staff on August 7th 1944.

g) IBM’s staff called the machine ASCC.

h) The Harvard University’s staff and others called it Harvard Mark I.

i) The Mark I executed long computations automatically.

j) The machine used 500 miles of wire.

k) It used 3,500 relays.

l) It used thousands of counters and switches.

**3.2) Turn the previous sentences into the passive voice. Use the objects marked in the sentences as the subjects of the passive sentences. The subject in each previous sentence is the agent, and it will go after ‘by’.**

\* In sentences **k)**, **l)** and **m)** use **‘in’** instead of **‘by’**. E**n las oraciones k), l) y m) usá ‘in’ en vez de ‘by’.**

In 1944, **IBM** introduced ***the Automatic Sequence Controlled Calculator***.

e.g. ***The Automatic Sequence Controlled Calculator was introduced by IBM in 1944.***

***……………………………………………………………………………………………………………………………………..***

***…………………………………………………………………………………………………………………………………….***

**3.3) Pay attention to the following sentences. In each of them, decide what ‘it’ and ‘its’ refers to. You must read the text again to figure it out.**

**e.g.**  The US Navy used ***it*** during the last part of World War II.

**a)** IBM **b)** the original concept **c) *the ASCC or Mark I***

**1)** Thomas Watson Senior approved the project and ***its*** funding, in February, 1939.

**a)** the funding for IBM **b)** the funding for the ASCC or Mark I  **c)** the funding for Harvard

**2)** IBM shipped ***it*** to Harvard in February 1944.

**a)** The ASCC  **b)** Harvard’s staff **c)** World War I

**3)** IBM presented ***it*** to the Harvard University staff on August 7th 1944.

**a)** Harvard’s staff **b)** the ASCC **c)** the Endicott Plant.

**4)** The Harvard University’s staff and others called ***it*** Harvard Mark I.

**a)** IBM´s staff **b)** World War I **c)** the ASCC

**5)** ***It*** used 3,500 relays.

**a)** the Mark I or ASCC **b)** Harvard University staff **c)** IBM

**6) *It*** used thousands of counters and switches.

**a)** Endicott plant **b)** Harvard University **c)** the Mark I or ASCC

**3.4) Read the text about the Mark I, again. Complete the following text with the missing parts to present the same information in passive voice. Pay attention! Each sentence has a number to guide you. Use the first sentence as an example.**

**1**The Automatic Sequence Controlled Calculator, or ASCC, the largest electromechanical calculator in the world **was introduced** by **IBM** in 1944. **2**It was a general-purpose electromechanical computer. **3**The ASCC or Mark I ……… ...……………… by …………. in war efforts, during the last part of World War II. **4** ………………………………………... was ………...………. to IBM …..... Dr Howard Aiken in November 1937. **5**After a ***feasibility*** study by IBM’s engineers, the project and its funding ……... personally ……………. by ………………………., head of IBM, in February, 1939. **6**…………….. was …………… and ***built*** ….. IBM at the Endicott Plant, and it ………… shipped to Harvard in February 1944. **7*Computations for the US Navy*** ...…… ***begun*** in May. **8**……………… was ……………… to Harvard University on August 7th 1944. **9** The machine ……. called ASCC by IBM’s staff. **10**Later on, ……. was …………….. Harvard Mark I ….. Harvard University’s staff and others. **11**Long computations ……. ……………….. automatically by ……………... **12**The machine was 51 feet (15 and a half meters) long. **13**500 miles of wire …………… ……………... **in** …………, with over 3,000,000 connections. **14**3,500 relays and thousands of counters and switches ……………… used ……….. the Mark 1.

**3.5) Read the following sentences. Mark the auxiliary and the main verb. Turn the sentences into the negative form. Change part of the sentence so that it sounds logical.**

**E.g.** The ASCC **was introduced** by IBM **in 1944**.

The ASCC **was not introduced** by IBM **in 1937**.

a) The Mark I was used by the US Navy during the last part of World War II.

………………………………………………………………………………………………………………………………………………………………………

b) The original concept for this giant calculator was presented to IBM by Dr Howard Aiken in November 1937.

……………………………………………………………………………………………………………………………………………………………………….

c) After a feasibility study by IBM’s engineers, the project and its funding was approved by Thomas Watson Senior, head of IBM, in February, 1939.

……………………………………………………………………………………………………………………………………………………………………….

d) The ASCC was developed and built by IBM at the Endicott Plant.

………………………………………………………………………………………………………………………………………………………………………….

e) It was shipped to Harvard in February 1944.

…………………………………………………………………………………………………………………………………………………………………………

**3.6) Read the following sentences. Mark the subject, the auxiliary and the main verb in each of them. Turn the sentences into Subject questions. Pay attention to the answers. All the wh- elements must have more than one word. Pay attention, please!!! El wh- de todas las preguntas debe tener más de una palabra (How many + … / Which + …, / What + …)**

E.g. **500 miles of wire** were used inthe Mark I.

**How many miles of wire** were used inthe Mark I? **500 miles of wire.**

a) 3,500 relays were used **in** the Mark I.

………………………………………………………………………………………………………………………..? **3,500 relays.**

b) Thousands of counters were used **in** the Mark I.

………………………………………………………………………………………………………………………..? **Thousands of counters.**

c) Thousands of switches were used **in** the Mark I.

………………………………………………………………………………………………………………………..? **Thousands of switches**.

d) The ASCC was presented to Harvard University on August 7th 1944.

………………………………………………………………………………………………………………………..? **The ASCC.**

e) Long computations were performed automatically by the Mark I.

………………………………………………………………………………………………………………………..? **Long calculations.**

f) The ASCC project was approved by Thomas Watson Senior in February, 1939.

………………………………………………………………………………………………………………………..? **The ASCC project.**

**3.7) Read the following sentences.** **Underline the subject, and mark *the auxiliary and the main verb (you can use italics)* in each sentence. Turn the sentences into Yes/No questions. Pay attention to the answers. If the answer is negative, change something in the question so that it sounds logical.**

**E.g.** Computations for the US Navy ***were begun*** in May.

**Were** computations for the US Navy **begun** in October? No, they weren’t. They were begun in May.

1) The machine was called ASCC by IBM’s staff.

………………………………………………………………………………………………………………………..? Yes, it was.

2) The machine was called Harvard Mark I by Harvard University’s staff and others.

………………………………………………………………………………………………………………………..? No, it wasn’t.

3) The project and its funding was approved by Thomas Watson Senior in February, 1939.

………………………………………………………………………………………………………………………..? No, it wasn’t.

d) The ASCC was developed and built by IBM at the Endicott Plant.

………………………………………………………………………………………………………………………..? Yes, it was.

e) The ASCC was shipped to Harvard in February 1944.

………………………………………………………………………………………………………………………..? No, it wasn’t.

**3.8) Read the following sentences. Underline the subject*, and mark the auxiliary and the main verb* in each sentence (*you can use italics*).**

**Turn the sentences into Wh- questions. Pay special attention to the answers to decide which wh- word or phrase you will use.**

a) The ASCC was presented to Harvard University **on August 7th 1944.**

………………………………………………………………………………………………………………………..? **On August 7th, 1944.**

b) Long computations were performed **automatically** by the Mark I.

………………………………………………………………………………………………………………………..? **Automatically.**

c) The ASCC project was approved by Thomas Watson Senior.

………………………………………………………………………………………………………………………..? **By Thomas Watson Senior.**

d) The original concept for this giant calculatorwas presented to IBM by Dr Howard Aiken.

………………………………………………………………………………………………………………………..? **By Howard Aiken.**

e)The original concept for this giant calculator was presented to IBM by Dr Howard Aiken in November 1937.

………………………………………………………………………………………………………………………..? **In November 1937.**

f)The ASCC or Mark I was used by the US Navy in war efforts **during the last part of World War II**.

……………………………………………………………………………………………………………………..? **During the last part of World War II**.

g) The ASCC was developed and built by IBM **at the Endicott Plant.**

………………………………………………………………………………………………………………………..? **At the Endicott Plant.**